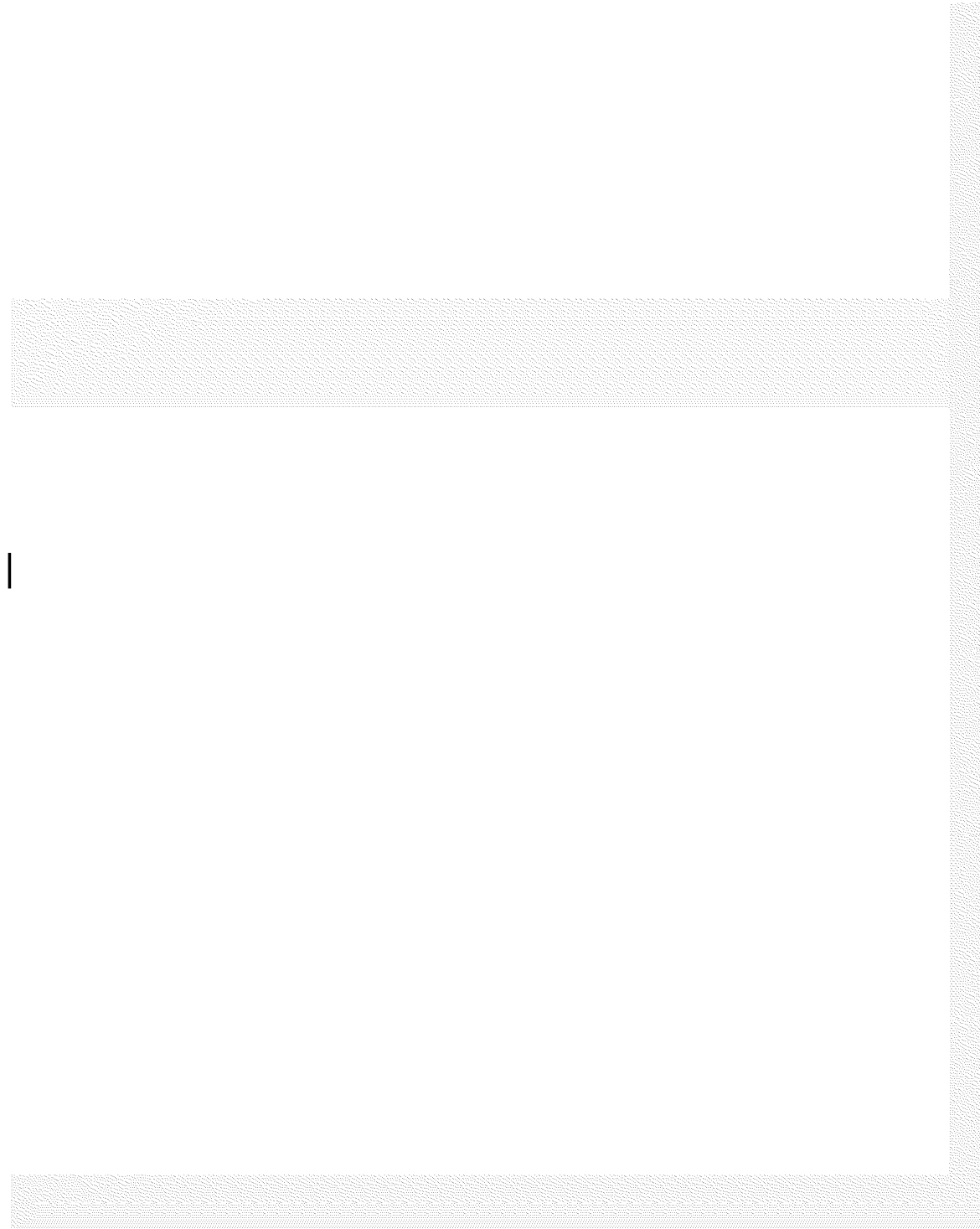


To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Donnell from National Biodiesel Conference & Expo
Sent: Tue 12/9/2014 3:01:43 PM
Subject: For your information



To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Donnell from National Biodiesel Conference & Expo
Sent: Wed 12/3/2014 9:01:42 PM
Subject: Paul, Fuel Up In Fort Worth!



|



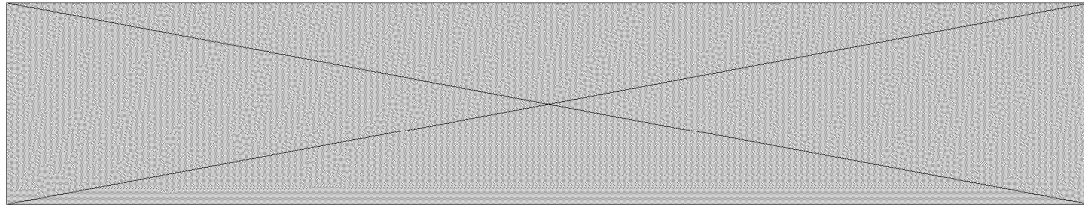
To: Grundler, Christopher[grundler.christopher@epa.gov]; Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Brooke Coleman
Sent: Fri 11/21/2014 8:31:19 PM
Subject: Fwd: AEC: New Path on RFS Makes Sense

Chris and Paul,

Here is our statement. At some point, I would really appreciate the opportunity to come in and explain our approach, which I know was not wholly appreciated over there; more to it than meets the eye. And we do look forward to 2015 on this thing. Hope you are well. -b

----- Original message -----

From: Dawn Moore
Date: 11/21/2014 11:27 AM (GMT-05:00)
To: Brooke Coleman
Subject: AEC: New Path on RFS Makes Sense



FOR IMMEDIATE RELEASE
November 21, 2014

AEC: New Path on RFS Makes Sense

WASHINGTON — Advanced Ethanol Council (AEC) Executive Director Brooke Coleman released the following statement today in response to the Obama Administration's decision not to act immediately on the 2014 Renewable Fuel Standard (RFS) Required Volume Obligation (RVO): "Pulling back on the 2014 RFS rule is the right thing to do at this stage in the game when it comes to preserving the integrity of the program. While the cellulosic biofuel industry will not get the policy certainty it needs from this decision, it does suggest that the Administration is listening when it comes to our concerns about giving oil companies too much power to avoid its obligations under the RFS going forward. This battle was never about the 2014 volumes for the oil industry, and we appreciate the Administration's willingness to pivot in the right direction this late in the game. The key now for advanced biofuel investment is to move quickly to fix what needs to be fixed administratively so we can reestablish the RFS as the global gold standard for advanced biofuel policy."

To unsubscribe or to manage your subscriptions [click here](#)..

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Larry Schafer
Sent: Fri 11/21/2014 7:31:55 PM
Subject: See this document ...
[RollOut for RVO Notice final 1030am.docx](#)

Paul,

Based on our discussion ...

Just FYI ... see the last page ...

Thanks

Larry Schafer
National Biodiesel Board
O: 202.737.8801
M: 202.997.8072
LSchafer@Biodiesel.org

Biodiesel – America’s Advanced Biofuel!
www.americasadvancedbiofuel.com

1331 Pennsylvania Ave. NW
Suite 505
Washington DC 20004

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]; Grundler, Christopher[grundler.christopher@epa.gov]
From: Michael.McAdams@hklaw.com
Sent: Fri 11/21/2014 12:37:59 AM
Subject: Fw: Rfs rumor

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: National Biodiesel Conference & Expo
Sent: Thur 11/20/2014 8:52:03 PM
Subject: How to Get Your Boss to Send You to Texas



To: Grundler, Christopher[grundler.christopher@epa.gov]; Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Jonathan Birdsong
Sent: Thur 11/20/2014 7:05:26 PM
Subject: Excellent job today

Tough environment/room today at ABFA. You both handled it with great diplomacy and clarity. Great work!

Thank you,

Jonathan Birdsong
BlueWater Strategies
25 Massachusetts Ave., NW - Suite 820
Washington, DC 20001
(202) 589-1757 - Direct
EPA (b) (6) Cell
jbirdsong@bwstrategies.com

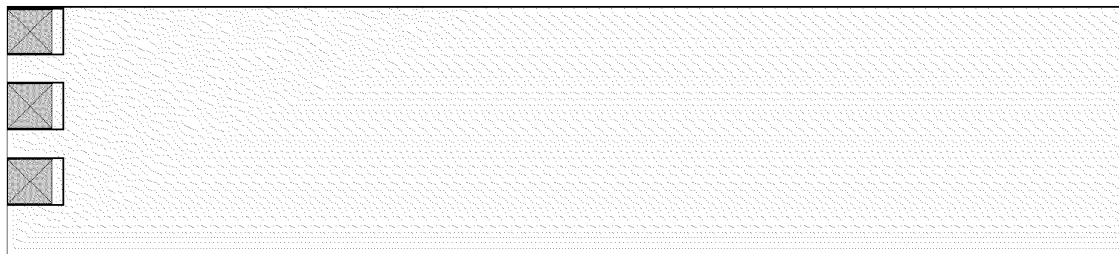
To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Michael.McAdams@hklaw.com
Sent: Thur 11/20/2014 5:27:09 PM
Subject: Re: Chris and I should be there right at 1pm or very close to it

*

*

*

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Donnell from National Biodiesel Conference & Expo
Sent: Mon 11/17/2014 5:03:03 PM
Subject: Your Insider's Guide to Biodiesel



|

|



To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Brent Erickson
Sent: Thur 11/6/2014 5:28:23 PM
Subject: Dr. Debbie Yaver to Receive Inaugural Rosalind Franklin Award

Dear Paul,

It is with great pleasure that BIO announces **Dr. Debbie Yaver will be presented with the 2014 BIO Rosalind Franklin Award for Leadership in Industrial Biotechnology at the BIO Pacific Rim Summit on Industrial Biotechnology and Bioenergy, which will take place this December 7-9 in San Diego.** Dr. Yaver's work and leadership in engineering industrial microorganisms embodies the spirit of Rosalind Franklin and her pioneering efforts.

Dr. Debbie Yaver

This award was created to help carry on the legacy of Rosalind Franklin who not only aided in the expansion of biotechnology, but also helped pave the way for women in the field. Rosalind Franklin was instrumental in the discovery and our greater understanding of the molecular structure of DNA. Through Rosalind Franklin's use of X-ray diffraction images, the true double helix structure of DNA was discovered. It was the help of Franklin's images and writings that eventually led Francis Crick and James Watson to release their 1953 model of the structure of DNA.

More than twenty female leaders in industrial biotechnology were nominated for the award. Dr. Yaver's accomplishments and dedication stood out to the Rosalind Franklin Award Selection Committee, who selected her as the inaugural recipient.

Dr. Yaver received her Bachelor's degree in Bacteriology from the University of California-Davis. After working for two years on oil field microbiology at SRI International, Dr. Yaver returned to UC-Davis where she earned her Ph.D. in Microbiology. Her dissertation research focused on the analysis of the in vivo function of 7S RNA in the yeast *Yarrowia lipolytica*. Dr. Yaver then conducted her postdoctoral research at UC-Davis, where she studied the role of the vacuolar ATPase in protein sorting.

Following her post-doctoral education, Dr. Yaver accepted a position as a Research Scientist in the Novo Nordisk enzyme division, the predecessor of what is now Novozymes. For over twenty two years, Dr. Yaver has made extraordinary scientific contributions to Novozymes' fundamental knowledge and expertise in gene expression technology in bacterial and fungal systems.

Currently, Dr. Yaver is the Director of Expression Technology, Genomics and Bioinformatics at Novozymes research center in Davis, California. Her research departments focus on engineering microbial strains for production of enzymes, other proteins and small molecules as well as extensive genomics and bioinformatics. Dr. Yaver is an author on many scientific publications in top-line peer-reviewed journals. Her vision and passion for industrial biotechnology is reflected by the fact that she is an inventor on nearly forty issued patents. Dr. Yaver truly leads by example and her success is a strong reflection of the inspiration and mentorship she provides to her colleagues.

Dr. Yaver is currently serving on the Board of Directors for the Society of Microbiology and Biotechnology (SIMB) and is chairing a SIMB Presidential Committee on Strategic Planning. She also serves on the Advisory Board for the Center for Biocatalysis and Bioprocessing at University of Iowa. She has remained active at UC-Davis and for several years and has taught a graduate level seminar on industrial biotechnology from discovery to product, which is part of the UC-Davis Designated Emphasis in Biotechnology program. Dr. Yaver is also a member of the Executive Committee for the UC-Davis NIH Training Grant for Biomolecular Technology and the Advisory Committee of the UC-Davis CREATE-IGERT Training program.

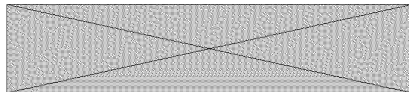
With the support of the Rosalind Franklin Society, BIO will present Dr. Yaver with the BIO Rosalind Franklin Award for Leadership in Industrial Biotechnology at the 2014 BIO Pacific Rim Summit on Industrial Biotechnology and Bioenergy, which will take place this December 7-9 in San Diego.

During this conference BIO will also hold a Women in Industrial Biotechnology Reception taking place on December 7th at 4:30 pm. This reception is only accessible to attendees of the BIO Pacific Rim Summit and has a limited number of spots available on a first come- first served basis. Email pacrim@bio.org to reserve your spot today.

I encourage you to join me in congratulating Dr. Yaver for her contributions, dedication and commitment to

the advancement of the industrial biotechnology field.

Regards,



Brent Erickson

Executive Vice President

Industrial and Environmental Section

Biotechnology Industry Organization

www.BIO.org/ind

Follow me on **Twitter** (**@BErickson_BIO**)

This message was intended for: argyropoulos.paul@epamail.epa.gov
You were added to the system January 30, 2009. For more information
[click here](#).
[Update your preferences](#) | [Unsubscribe](#)

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Lindsay Fitzgerald
Sent: Thur 10/30/2014 5:42:27 PM
Subject: RE: Beer?

Early like 4:30?

-----Original Message-----

From: Argyropoulos, Paul [mailto:Argyropoulos.Paul@epa.gov]
Sent: Wednesday, October 29, 2014 3:18 PM
To: Lindsay Fitzgerald
Subject: RE: Beer?

Let's do Thursday, as early as you might be available.

Safe travels back.

Paul Argyropoulos
Senior Policy Advisor
US EPA
Office of Transportation and Air Quality
Phone: 202-564-1123
Mobile: 202-577-9354
Email: argyropoulos.paul@epa.gov
Web: www.epa.gov

-----Original Message-----

From: Lindsay Fitzgerald [mailto:lfitzgerald@biodiesel.org]
Sent: Wednesday, October 29, 2014 3:15 PM
To: Argyropoulos, Paul
Subject: Re: Beer?

Monday? Thursday?

Lindsay Fitzgerald
National Biodiesel Board
202-737-8801
610-639-0048
Lfitzgerald@biodiesel.org

> On Oct 29, 2014, at 2:10 PM, Argyropoulos, Paul <Argyropoulos.Paul@epa.gov> wrote:

>

> Sure. What day?

>

> Paul Argyropoulos
> Senior Policy Advisor
> US EPA
> Office of Transportation and Air Quality
> Phone: 202-564-1123
> Mobile: 202-577-9354
> Email: argyropoulos.paul@epa.gov
> Web: www.epa.gov

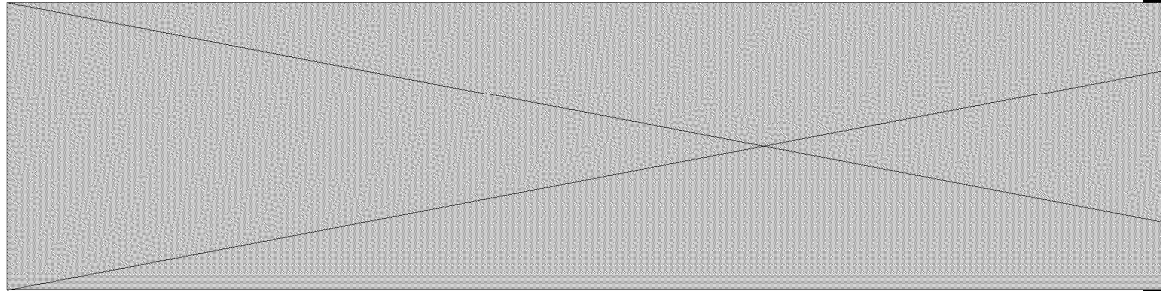
>

> -----Original Message-----

> From: Lindsay Fitzgerald [mailto:lfitzgerald@biodiesel.org]
> Sent: Wednesday, October 29, 2014 3:05 PM

> To: Argyropoulos, Paul
> Subject: Beer?
>
> I figured that subject would get your attention :) I'm in Kansas City for our Technical Workshop right now
but flying home tonight, it was actually really interesting.
>
> Time for a beverage next week??
>
> Lindsay Fitzgerald
> National Biodiesel Board
> 202-737-8801
> 610-639-0048
> Lfitzgerald@biodiesel.org

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: BIO Industrial & Environmental News
Sent: Thur 10/30/2014 4:00:38 PM
Subject: Industrial Biotech News Clips from October 2014



[View message online](#)

Biofuels

Domestic Fuel (October 22, 2014) [Big Oil Denied Again](#)

Big Oil has been denied again. The U.S. Circuit Court of Appeals for the District of Columbia has found that the American Petroleum Institute (API) and the Engine Products E15 Bargain! Group (EPG) did not have standing against keeping E15 out of the marketplace. In the rule the judge wrote, "they cannot show that their members have suffered or are threatened with suffering a relevant injury."

The Crop Site (October 15, 2014) [Cellulosic Ethanol Prospects Boosted by Research](#)

The potential for producing cost-effective cellulosic ethanol that uses plentiful and sustainable cellulosic plant biomass continues to grow, thanks to research at the US Department of Agriculture (USDA). USDA Agricultural Research Service (ARS) scientists at the Bioenergy Research Unit in Peoria, Illinois, have recently completed studies on multiple approaches that could help streamline cellulosic ethanol production. ARS is USDA's chief intramural scientific research agency, and this work supports USDA's priority of finding new sources for producing bioenergy.

The Des Moines Register (October 13, 2014) [ExxonMobil to Invest \\$1 Million in ISU Biofuels Research](#)

Oil and gas giant ExxonMobil Corp. is investing \$1 million over two years to establish an advanced biofuels research program at Iowa State University, the partners said today. The ExxonMobil biofuels initiative will initially focus on two research projects connected to "fast pyrolysis" of biomass. It's a process of rapidly heating biomass such as corn stalks, switchgrass or wood chips without oxygen to produce liquid bio-oil that can then be upgraded into transportation fuels, ISU said in a statement.

The Gazette (October 12, 2014) [Renewable Fuel Standard Decision Faces Indefinite Delay](#)

An Environmental Protection Agency proposal to lower the required level of ethanol in petroleum-based fuels has stalled, leading to speculation that politics are in play as the midterm election looms. Nearly a year past the Nov. 13, 2013 deadline, the Renewable Fuel Standard still is under review by the White House Office of Management and Budget. The Environmental Protection Agency had proposed that 13 billion gallons of corn ethanol be blended into the nation's fuel mix in 2014, lower than the 14.4 billion target outlined in a 2007 law. Though the proposal was cheered by oil companies and faced backlash from the ethanol industry, representatives from both industries, as well as state leaders, said they are disappointed in the apparent lack of progress on the ethanol mandate this year.

Reuters (October 9, 2014) [U.S. Biofuel Mandate Cuts Would Raise Carbon Pollution: Lawmakers](#)

The Obama administration's proposed cuts to U.S. biofuel use targets could undermine the White House's plan to tackle climate change, according to two Democrats on the Senate committee that oversees the renewable fuel mandate. The Environmental Protection Agency's plan, slashing requirements for blending ethanol and biodiesel into U.S. fuel supplies in 2014, would lead to increased oil use and carbon emissions, Senators Barbara Boxer and Edward Markey said in a letter sent to White House late on Wednesday. A study by the Biotechnology Industry Organization cited by Boxer and Markey that found the proposed targets would increase net carbon pollution by 28.2 million metric tons in 2014.

Biofuels Digest (October 9, 2014) Earth to Cellulosic Ethanol: Glad You're Here, Buddy, What Took So Long?

There's a gigantic disconnect between two sections in the country as to whether the United States should be celebrating the success or the failure of cellulosic biofuels — biofuels made from crop residues, energy crops, and other feedstocks including municipal solid waste, and which feature a 60 percent or greater full-lifecycle reduction of greenhouse gas emissions compared to conventional gasoline.

The Washington Post (September 30, 2014) Obama and Modi Announce Agreement on U.S.–India Efforts to Fight Global Warming

The Obama administration reached an agreement with India on Tuesday on measures intended to accelerate that country's shift to renewable fuels, steps that officials say will reduce carbon emissions while helping India's new government extend electricity to all of its 1.2 billion citizens. The package, announced after talks between President Obama and visiting Indian Prime Minister Narendra Modi, also contained a modest step toward reducing global emissions of hydrofluorocarbons, industrial chemicals that act as a powerful greenhouse gas in the atmosphere. Indian officials formally agreed to engage in international discussions that the White House hopes will lead to a phase-out of the chemicals, known as HFCs.

Biobased Products, Renewable Specialty Chemicals, and Synthetic Biology

The Hill (October 23, 2014) Creating A Strong Economy Through Biobased Products

Contribution to The Hill was made by Brent Erickson, EVP, The Biotechnology Industry Organization Head, Industrial & Environmental section. In a recently released report entitled "Why Biobased?" the U.S. Department of Agriculture (USDA) answers the question of why America should invest in a biobased economy. The report explores the economic impacts of biobased products in the United States, which include more jobs across the nation, lucrative job opportunities for rural Americans and a stronger bridge between agriculture and manufacturing. The report came at an opportune time as the United States is currently facing such challenges as climate change, trying to create jobs, generate new business opportunities and working to meet the growing demand for more sustainable processes and products.

Pulp & Paper (October 21, 2014) Global Biotechnology Event Returns to Montreal Next Year

The Biotechnology Industry Organization (BIO) issued a call to leaders from the biotechnology, chemical and agricultural industries to submit proposals and individual papers for the 2015 World Congress on Industrial Biotechnology. The conference will be held July 19-22, 2015, at the Palais des congrès de Montréal in Montréal. The call for papers is now open, with a deadline of January 15, 2015.

Biofuels Digest (October 21, 2014) Robust Economic Opportunities in the U.S. Biobased Economy-

Contribution to Biofuels Digest made by Brent Erickson, EVP, The Biotechnology Industry Organization Head, Industrial & Environmental section. A report released a couple of weeks ago by the USDA's BioPreferred Program, "Why Biobased?," provides a very positive overview of economic opportunities in the emerging biobased economy. Those opportunities include a revival of U.S. manufacturing and new job creation, economic growth in rural agricultural communities, and production of new environmentally preferable consumer products.

Industrial Biotechnology Publication (October 21, 2014) Creative Adaptation: Enhancing Oversight of Synthetic Biology Under the Toxic Substances Control Act

This article provides a brief description of synthetic biology, discusses the current regulatory framework that governs the regulation of products of synthetic biology, and focuses narrowly on options and opportunities the U.S. Environmental Protection Agency (EPA), innovators in the area of synthetic biology, and the Toxic Substances Control Act (TSCA)-regulated community at large may wish to consider to enhance TSCA's core adaptive capacity to identify and address potential health and environmental risk implications posed by the commercialization of products of synthetic biology.

Chemistry World (October 16, 2014) Bio-based Chemicals on the Rise in US

The bio-based products and renewable chemical industry in the US is growing and offers significant economic benefits, including job creation in numerous sectors, according to the US Department of Agriculture (USDA). In a report released on 7 October, the USDA estimates that bio-based chemicals, which are manufactured from renewable resources and are slowly beginning to replace their petroleum-derived counterparts, will constitute over 10% of the chemicals market by 2015...The agency suggests that the global worldwide capacities of bio-based plastics will increase to 3.45 million metric tonnes in 2020. 'The bioeconomy is rapidly growing, creating new economic opportunities and providing well-paying jobs for tens of thousands of Americans,' said Brent Erickson from the US Biotech Industry Organization (BIO).

Wisconsin Ag Connection (October 9, 2014) BIO Welcomes USDA Report on Economics of Bioeconomy
USDA's new report 'Why Biobased?' is the first comprehensive federal quantification of the job opportunities and other economic benefits of the growing biobased products and renewable chemical industry. The Biotechnology Industry Organization today thanked Agriculture Secretary Tom Vilsack for supporting the research and writing of the report.

International Sugar (October 6, 2014) Malaysia – Investments in Bioeconomy Exceeds US \$5.6 Billion
Total investments approved by Malaysian Biotechnology Corporation Sdn Bhd (BiotechCorp) have reached more than US\$5.6 billion (RM18.2 billion) since 2011, exceeding the US\$2.7 billion target for 2011-2015, said Prime Minister Datuk Seri Najib Razak recently. He welcomed the significant investment in bioeconomy as Malaysia's journey towards becoming a high-income developed nation.

Phys.org (October 1, 2014) Safer than Silver: Antibacterial Material Made with Algae
Consumers concerned about safety of silver ions in antibacterial and odor-free clothing will soon have a proven safe alternative thanks to ultra-thin thread and a substance found naturally in red algae. Mikael Hedenqvist, professor of polymer materials at KTH Royal Institute of Technology, says he and his colleagues, assistant professor Richard Olsson and doctoral student Rickard Andersson, have produced new antibacterial fibres that combine bio-compatible plastics with the antimicrobial compound, lanosol, which is commonly found in seaweeds of the family Rhodophyta, or red algae.

Industrial and Environmental Section Member News

Green Car Congress (October 21, 2014) Macedonia, DuPont and Ethanol Europe in MOU for Cellulosic Ethanol Plant

The Government of the Republic of Macedonia last week joined a Memorandum of Understanding (MOU) between Hungary-based Ethanol Europe and DuPont to facilitate the development of the cellulosic ethanol market in the Pelagonia region—one of eight statistical regions in the country, and bordering Greece and Albania. The collaboration is focused on the preparation of detailed feasibility studies for a commercial scale 2G ethanol plant to supply the European market.

Biofuels Digest (October 19, 2014) Abengoa Opens World's Largest Cellulosic biorefinery, as US Energy Secretary Moniz says "Let's get going!" on Advanced Biofuels

In Kansas, Abengoa Bioenergy officially opened the world's largest cellulosic biorefinery in Hugoton on Friday, surrounded by dignitaries such as US Energy Secretary Ernest Moniz, Kansas Governor Sam Brownback, Kansas senior Senator Pat Roberts, former Interior Secretary Ken Salazar, former Energy Secretary Bill Richardson among many others.

MarketWatch (October 16, 2014) Presidential Green Chemistry Challenge Recognizes Industrial Biotechnology Companies for Cleaner Fuels and Oil

Biotechnology companies Amyris and Solazyme, Inc., today received awards in the Presidential Green Chemistry Challenge for industrial biotechnology applications that produce farnesene and algae oils. BIO congratulates its member companies on receiving the awards, which recognize industrial biotechnology's contribution to reducing pollution at the source. BIO President & CEO Jim Greenwood said, "Industrial biotechnology applications once again are recognized in the Presidential Green Chemistry Challenge for their ability to prevent pollution. Today's award for Solazyme marks the first time that a microalgae biotechnology application has been recognized. Solazyme's algae oils are a sustainable alternative to petroleum. Likewise, Amyris' farnesene is a breakthrough renewable hydrocarbon that displaces petroleum in diesel and jet fuels. I congratulate both Solazyme and Amyris on receiving their accomplishments." Also seen in Environmental Leader (October 17, 2014).

Renewable Energy Focus (October 16, 2014) US Department of Energy Awards \$13.4 Million to Develop Advanced BioFuels and Bio-products

The research and development projects that received the funding from the Department of Energy (DoE) will focus on developing integrated processes for the production of advanced biofuels and chemicals. These products not only will help reduce carbon emissions, but also advance the DoE's work to enable the production of clean, renewable and cost-competitive drop-in biofuel at \$3 per gallon by 2022. Natureworks, LLC of Minnetonka, Minnesota, will receive up to \$2.5 million to develop a fermentation process, using biogas and bacteria, for the production of lactic acid. This process could be used for the commercialization of biomethane to fuels.

Bloomberg Businessweek (October 14, 2014) GranBio Planning Second Brazil Site for Cellulosic Ethanol

GranBio Investimentos SA, the Brazilian biotechnology company that opened the southern hemisphere's first cellulosic ethanol plant last month, is close to announcing a partner for its second facility. The new plant will be comparable in size to the \$190 million-Bioflex 1 plant, Bernardo Gradin, GranBio's chief executive officer, said in an interview yesterday in Bloomberg's offices in Sao Paulo. He's also planning a second biochemical plant.

Biofuels (October 13, 2014) Novozymes Launches Medley Enzyme for Detergent Producers

In Denmark, Novozymes has launched their Medley enzyme solution, a multi-enzyme solution for small and mid-sized detergent producers. Available in five versions, the solution is tailored to the specific stain removals most needed in different geographies such as Europe, Asia, China, and Africa. It's the first blend of enzymes ever introduced for the broad market, and the most significant introduction for Novozymes' Household Care business so far in 2014.

The New York Times (October 7, 2014) Airlines Fly the Skies on a Sugar High

The red-and-white Boeing 737 looked like any other plane on the tarmac at Orlando International Airport. But on a clear day last July, the plane became the first commercial flight powered by a new jet fuel made from sugar cane. The passenger flight, operated by the Brazilian low-fare airline GOL, flew from Florida to São Paulo, Brazil, on a 10 percent blend of a clear liquid called farnesane mixed with regular jet fuel. More commercial airlines are considering using farnesane on limited flights, said John Melo, chief executive of Amyris, the biotech firm based in California that developed farnesane in a joint venture with Total, the French energy giant.

Industry Events Calendar

ABLCNext - November 9-11, 2014-San Francisco, California

ABLCNext focuses on rapidly emerging technologies and feedstocks, including novel molecules, new crops, hybrids and residues. advancedbiofuelssummit.com

Carbon Dioxide as Feedstock for Chemistry and Polymers- December 2-3, 2014- Essen, Germany

As the largest event on Carbon Capture and Utilization (CCU) in 2014, more than 300 participants from the leading industrial and academic players in CO2 utilization that are expected to attend the conference and to share their recent success stories, as well as new ideas and products in implementation. co2-chemistry.eu

BIO Pacific Rim Summit on Industrial Biotechnology and Bioenergy- December 7-9, 2014- San Diego, California

The 9th Annual BIO Pacific Rim Summit is the original conference dedicated solely to the growth of the industrial biotechnology and bioenergy sectors in North America and the Asia-Pacific region. **Registration and housing are now open- reserve your room at the headquarters hotel now!** bio.org/pacrim

ARPA-E Energy Innovation Summit- February 9-11, 2015- Washington, DC

The ARPA-E Energy Innovation Summit brings together the very best minds in business, academia, and government to advance cutting-edge technologies that could fundamentally change the way we generate, use and store energy. arpa-e-summit.com

Advanced Biofuels Leadership Summit- March 11-13, 2014- Washington, DC

ABLC has become one of the largest gatherings of Advanced Biofuels and Renewable Chemicals operating company CEOs and senior executives, strategic partners, financiers, equity analysts, policy makers and industry suppliers.

International Conference on Bio-based Materials- April 8-10, 2014- Cologne

This conference aims to provide major players from the European and Asian bio-based chemicals, plastics and composite industries with an opportunity to present and discuss their latest developments and strategies. biowerkstoff-kongress.de

BIO World Congress on Industrial Biotechnology- July 19-22, 2015- Montreal, Canada

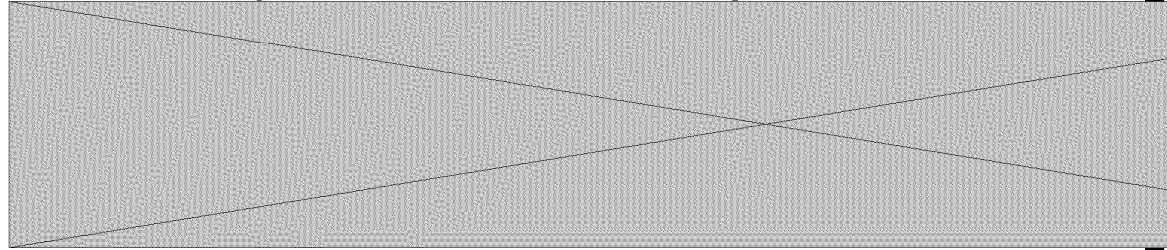
The BIO World Congress on Industrial Biotechnology is the world's largest industrial biotechnology event for business leaders, investors, and policy makers in biofuels, biobased products, and renewable chemicals. **The call for papers is now open until January 15- submit your abstract now!** bio.org/worldcongress

Subscribe to the new Industrial BIOtech Smart Brief here to

Receive news like this on a daily basis. [Learn more.](#)

Follow Industrial Biotech Company news via Twitter:
<https://twitter.com/PaulWinters/industrial-biotech>

[View this message online](#) or [forward this message](#)



This message was intended for: argyropoulos.paul@epamail.epa.gov
You were added to the system January 30, 2009. For more information
[click here](#).
[Update your preferences](#) | [Unsubscribe](#)

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Michael.McAdams@hklaw.com
Sent: Thur 10/30/2014 2:00:59 PM
Subject: RE:

Paul that would actually be better. I will put it on my calendar. Unfortunately, blew a marine gear seal yesterday and had to abort the trip. Everything happens for a reason, thank god it blew in the first hour after we left made it easy to run back on the one engine and be where I have all my friends to help address the problem. Maybe give it another shot in three weeks.

Michael J. McAdams | Holland & Knight
Senior Policy Advisor
800 17th Street, NW Suite 1100 | Washington DC 20006
Phone 202.469.5140 | Fax 202.955.5564
michael.mcadams@hklaw.com | www.hklaw.com

-----Original Message-----

From: Argyropoulos, Paul [mailto:Argyropoulos.Paul@epa.gov]
Sent: Thursday, October 30, 2014 9:07 AM
To: McAdams, Michael J (WAS - X75140)
Subject: RE:

Hi Mike. I hope you don't respond to this because you are on vacation, at least not until you return.

Just a quick question for you. Is it possible for us to move our meeting with you and Chris from Wednesday the 19th to Tuesday the 18th -- at 10:30? If so, let me know. If not, not a problem.

We have Paul Machiele that will be in town on Tuesday that we'd have join us in person. If not, he'll just join us via video on Wednesday.

EPA (b) (6)

Paul Argyropoulos
Senior Policy Advisor
US EPA
Office of Transportation and Air Quality
Phone: 202-564-1123
Mobile: 202-577-9354
Email: argyropoulos.paul@epa.gov
Web: www.epa.gov

-----Original Message-----

From: Argyropoulos, Paul
Sent: Wednesday, October 29, 2014 7:56 AM
To: Michael.McAdams@hklaw.com
Subject: Re:

EPA (b) (6)

Paul Argyropoulos
Senior Policy Advisor
US EPA
Office of Transportation and Air Quality
Mobile: 202-577-9354
Original Message
From: Michael.McAdams@hklaw.com

Sent: Wednesday, October 29, 2014 7:53 AM
To: Argyropoulos, Paul
Subject:

No prob. Shoving off to go south.

Sent using BlackBerry

NOTE: This e-mail is from a law firm, Holland & Knight LLP ("H&K"), and is intended solely for the use of the individual(s) to whom it is addressed. If you believe you received this e-mail in error, please notify the sender immediately, delete the e-mail from your computer and do not copy or disclose it to anyone else. If you are not an existing client of H&K, do not construe anything in this e-mail to make you a client unless it contains a specific statement to that effect and do not disclose anything to H&K in reply that you expect it to hold in confidence. If you properly received this e-mail as a client, co-counsel or retained expert of H&K, you should maintain its contents in confidence in order to preserve the attorney-client or work product privilege that may be available to protect confidentiality.

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Lindsay Fitzgerald
Sent: Wed 10/29/2014 7:05:10 PM
Subject: Beer?

I figured that subject would get your attention :) I'm in Kansas City for our Technical Workshop right now but flying home tonight, it was actually really interesting.

Time for a beverage next week??

Lindsay Fitzgerald
National Biodiesel Board
202-737-8801
610-639-0048
Lfitzgerald@biodiesel.org

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Michael.McAdams@hklaw.com
Sent: Wed 10/29/2014 11:53:44 AM

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Michael.McAdams@hklaw.com
Sent: Tue 10/28/2014 10:39:30 PM
Subject: Re: odd ball question

Thanks. I would welcome that. Done. Headed south in the morning.

Sent using BlackBerry

From: Argyropoulos, Paul [mailto:Argyropoulos.Paul@epa.gov]
Sent: Tuesday, October 28, 2014 04:02 PM Eastern Standard Time
To: McAdams, Michael J (WAS - X75140)
Subject: RE: odd ball question

Hi Mike. Can we confirm 10:30am on the 19th for you to come over to meet with Chris, in advance of the board meeting on the 20th?

Paul Argyropoulos

Senior Policy Advisor

US EPA

Office of Transportation and Air Quality

Phone: 202-564-1123

Mobile: 202-577-9354

Email: argyropoulos.paul@epa.gov

Web: www.epa.gov

From: Michael.McAdams@hklaw.com [mailto:Michael.McAdams@hklaw.com]
Sent: Monday, October 27, 2014 3:09 PM
To: Argyropoulos, Paul
Subject: RE: odd ball question

Paul, just saw your question. I have my exec committee on the 19th, I can do the morning but not the afternoon on the 19th.

Michael J. McAdams | **Holland & Knight**
Senior Policy Advisor
800 17th Street, NW Suite 1100 | Washington DC 20006
Phone 202.469.5140 | Fax 202.955.5564
michael.mcadams@hklaw.com | www.hklaw.com

From: Argyropoulos, Paul [<mailto:Argyropoulos.Paul@epa.gov>]
Sent: Monday, October 27, 2014 3:06 PM
To: McAdams, Michael J (WAS - X75140)
Subject: RE: odd ball question

United States territories, such as Puerto Rico, are not included in the RFS2 program unless they opt-in according to §80.1443. See also §§80.1407(f) and 80.1426(b). I believe they were thinking of opting-in but I don't believe they have.

On another note, can you meet with us (and Chris) on Nov 19th at either 1pm or 3pm? This would be in follow-up to our discussions / suggestions to do so with him prior to your board meeting on the 20th.

Also, when might you be slotting Chris in at your board meeting?

Thanks, Paul

Paul Argyropoulos

Senior Policy Advisor

US EPA

Office of Transportation and Air Quality

Phone: 202-564-1123

Mobile: 202-577-9354

Email: argyropoulos.paul@epa.gov

Web: www.epa.gov

From: Michael.McAdams@hkllaw.com [<mailto:Michael.McAdams@hkllaw.com>]

Sent: Monday, October 27, 2014 3:02 PM

To: Argyropoulos, Paul

Subject: odd ball question

Paul: if someone sells a heating oil to the Puerto Rico can they take the RIN since it's a US territory or do they have to retire the rin? One I don't know.

Michael J. McAdams | Holland & Knight

Senior Policy Advisor

800 17th Street, NW Suite 1100 | Washington DC 20006

Phone 202.469.5140 | Fax 202.955.5564

michael.mcadams@hkllaw.com | www.hkllaw.com

NOTE: This e-mail is from a law firm, Holland & Knight LLP ("H&K"), and is intended solely for the use of the individual(s) to whom it is addressed. If you believe you received this e-mail in error, please notify the sender immediately, delete the e-mail from your computer and do not copy or disclose it to anyone else. If you are not an existing client of H&K, do not construe anything in this e-mail to make you a client unless it contains a specific statement to that effect and do not disclose anything to H&K in reply that you expect it to hold in confidence. If you properly received this e-mail as a client, co-counsel or retained expert of H&K, you should maintain its contents in confidence in order to preserve the attorney-client or work product privilege that may be available to protect confidentiality.

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Michael.McAdams@hklaw.com
Sent: Mon 10/27/2014 7:08:49 PM
Subject: RE: odd ball question

Paul, just saw your question. I have my exec committee on the 19th, I can do the morning but not the afternoon on the 19th.

Michael J. McAdams | **Holland & Knight**
Senior Policy Advisor
800 17th Street, NW Suite 1100 | Washington DC 20006
Phone 202.469.5140 | Fax 202.955.5564
michael.mcadams@hklaw.com | www.hklaw.com

From: Argyropoulos, Paul [mailto:Argyropoulos.Paul@epa.gov]
Sent: Monday, October 27, 2014 3:06 PM
To: McAdams, Michael J (WAS - X75140)
Subject: RE: odd ball question

United States territories, such as Puerto Rico, are not included in the RFS2 program unless they opt-in according to §80.1443. See also §§80.1407(f) and 80.1426(b). I believe they were thinking of opting-in but I don't believe they have.

On another note, can you meet with us (and Chris) on Nov 19th at either 1pm or 3pm? This would be in follow-up to our discussions / suggestions to do so with him prior to your board meeting on the 20th.

Also, when might you be slotting Chris in at your board meeting?

Thanks, Paul

Paul Argyropoulos

Senior Policy Advisor

US EPA

Office of Transportation and Air Quality

Phone: 202-564-1123

Mobile: 202-577-9354

Email: argyropoulos.paul@epa.gov

Web: www.epa.gov

From: Michael.McAdams@hklaw.com [<mailto:Michael.McAdams@hklaw.com>]

Sent: Monday, October 27, 2014 3:02 PM

To: Argyropoulos, Paul

Subject: odd ball question

Paul: if someone sells a heating oil to the Puerto Rico can they take the RIN since it's a US territory or do they have to retire the rin? One I don't know.

Michael J. McAdams | Holland & Knight

Senior Policy Advisor

800 17th Street, NW Suite 1100 | Washington DC 20006

Phone 202.469.5140 | Fax 202.955.5564

michael.mcadams@hklaw.com | www.hklaw.com

NOTE: This e-mail is from a law firm, Holland & Knight LLP ("H&K"), and is intended solely for the use of the individual(s) to whom it is addressed. If you believe you received this e-mail in error, please notify the sender immediately, delete the e-mail from your computer and do not copy or disclose it to anyone else. If you are not an existing client of H&K, do not construe anything in this e-mail to make you a client unless it contains a specific statement to that effect and do not disclose anything to H&K in reply that you expect it to hold in confidence. If you properly received this e-mail as a client, co-counsel or retained expert of H&K, you should maintain its contents in confidence in order to preserve the attorney-client or work product privilege that may be available to protect confidentiality.

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Michael.McAdams@hklaw.com
Sent: Mon 10/27/2014 7:07:20 PM
Subject: RE: odd ball question

I was thinking around 3.

Michael J. McAdams | **Holland & Knight**
Senior Policy Advisor
800 17th Street, NW Suite 1100 | Washington DC 20006
Phone 202.469.5140 | Fax 202.955.5564
michael.mcadams@hklaw.com | www.hklaw.com

From: Argyropoulos, Paul [mailto:Argyropoulos.Paul@epa.gov]
Sent: Monday, October 27, 2014 3:06 PM
To: McAdams, Michael J (WAS - X75140)
Subject: RE: odd ball question

United States territories, such as Puerto Rico, are not included in the RFS2 program unless they opt-in according to §80.1443. See also §§80.1407(f) and 80.1426(b). I believe they were thinking of opting-in but I don't believe they have.

On another note, can you meet with us (and Chris) on Nov 19th at either 1pm or 3pm? This would be in follow-up to our discussions / suggestions to do so with him prior to your board meeting on the 20th.

Also, when might you be slotting Chris in at your board meeting?

Thanks, Paul

Paul Argyropoulos

Senior Policy Advisor

US EPA

Office of Transportation and Air Quality

Phone: 202-564-1123

Mobile: 202-577-9354

Email: argyropoulos.paul@epa.gov

Web: www.epa.gov

From: Michael.McAdams@hklaw.com [<mailto:Michael.McAdams@hklaw.com>]

Sent: Monday, October 27, 2014 3:02 PM

To: Argyropoulos, Paul

Subject: odd ball question

Paul: if someone sells a heating oil to the Puerto Rico can they take the RIN since it's a US territory or do they have to retire the rin? One I don't know.

Michael J. McAdams | Holland & Knight

Senior Policy Advisor

800 17th Street, NW Suite 1100 | Washington DC 20006

Phone 202.469.5140 | Fax 202.955.5564

michael.mcadams@hklaw.com | www.hklaw.com

NOTE: This e-mail is from a law firm, Holland & Knight LLP ("H&K"), and is intended solely for the use of the individual(s) to whom it is addressed. If you believe you received this e-mail in error, please notify the sender immediately, delete the e-mail from your computer and do not copy or disclose it to anyone else. If you are not an existing client of H&K, do not construe anything in this e-mail to make you a client unless it contains a specific statement to that effect and do not disclose anything to H&K in reply that you expect it to hold in confidence. If you properly received this e-mail as a client, co-counsel or retained expert of H&K, you should maintain its contents in confidence in order to preserve the attorney-client or work product privilege that may be available to protect confidentiality.

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Michael.McAdams@hklaw.com
Sent: Mon 10/27/2014 7:01:36 PM
Subject: odd ball question

Paul: if someone sells a heating oil to the Puerto Rico can they take the RIN since it's a US territory or do they have to retire the rin? One I don't know.

Michael J. McAdams | Holland & Knight
Senior Policy Advisor
800 17th Street, NW Suite 1100 | Washington DC 20006
Phone 202.469.5140 | Fax 202.955.5564
michael.mcadams@hklaw.com | www.hklaw.com

NOTE: This e-mail is from a law firm, Holland & Knight LLP ("H&K"), and is intended solely for the use of the individual(s) to whom it is addressed. If you believe you received this e-mail in error, please notify the sender immediately, delete the e-mail from your computer and do not copy or disclose it to anyone else. If you are not an existing client of H&K, do not construe anything in this e-mail to make you a client unless it contains a specific statement to that effect and do not disclose anything to H&K in reply that you expect it to hold in confidence. If you properly received this e-mail as a client, co-counsel or retained expert of H&K, you should maintain its contents in confidence in order to preserve the attorney-client or work product privilege that may be available to protect confidentiality.

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Michael.McAdams@hklaw.com
Sent: Thur 10/23/2014 6:49:39 PM

Paul: Always appreciate the time to get together at lunch. Thanks brother. I forgot to ask you, do you have any idea on the Part 80 for Gran Bio?

Michael J. McAdams | Holland & Knight
Senior Policy Advisor
800 17th Street, NW Suite 1100 | Washington DC 20006
Phone 202.469.5140 | Fax 202.955.5564
michael.mcadams@hklaw.com | www.hklaw.com

NOTE: This e-mail is from a law firm, Holland & Knight LLP ("H&K"), and is intended solely for the use of the individual(s) to whom it is addressed. If you believe you received this e-mail in error, please notify the sender immediately, delete the e-mail from your computer and do not copy or disclose it to anyone else. If you are not an existing client of H&K, do not construe anything in this e-mail to make you a client unless it contains a specific statement to that effect and do not disclose anything to H&K in reply that you expect it to hold in confidence. If you properly received this e-mail as a client, co-counsel or retained expert of H&K, you should maintain its contents in confidence in order to preserve the attorney-client or work product privilege that may be available to protect confidentiality.

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Michael.McAdams@hklaw.com
Sent: Thur 10/23/2014 2:25:22 PM
Subject: RE: today

Let's dp the castle. I like there salad.

Michael J. McAdams | **Holland & Knight**
Senior Policy Advisor
800 17th Street, NW Suite 1100 | Washington DC 20006
Phone 202.469.5140 | Fax 202.955.5564
michael.mcadams@hklaw.com | www.hklaw.com

From: Argyropoulos, Paul [mailto:Argyropoulos.Paul@epa.gov]
Sent: Thursday, October 23, 2014 10:18 AM
To: McAdams, Michael J (WAS - X75140)
Subject: RE: today

Just sent you an email too. Suggested Boss Shepards but Elephant and Castle is good by us. At noon

Paul Argyropoulos

Senior Policy Advisor

US EPA

Office of Transportation and Air Quality

Phone: 202-564-1123

Mobile: 202-577-9354

Email: argyropoulos.paul@epa.gov

Web: www.epa.gov

From: Michael.McAdams@hklaw.com [<mailto:Michael.McAdams@hklaw.com>]
Sent: Thursday, October 23, 2014 10:09 AM
To: Argyropoulos, Paul
Subject: today

Do you want to do elephant and castle or just have me come to your office. Your call.

Michael J. McAdams | Holland & Knight

President, ABFA
Senior Policy Advisor
800 17th Street, NW Suite 1100 | Washington DC 20006
Phone 202.469.5140 | Fax 202.955.5564
michael.mcadams@hklaw.com | www.hklaw.com

NOTE: This e-mail is from a law firm, Holland & Knight LLP ("H&K"), and is intended solely for the use of the individual(s) to whom it is addressed. If you believe you received this e-mail in error, please notify the sender immediately, delete the e-mail from your computer and do not copy or disclose it to anyone else. If you are not an existing client of H&K, do not construe anything in this e-mail to make you a client unless it contains a specific statement to that effect and do not disclose anything to H&K in reply that you expect it to hold in confidence. If you properly received this e-mail as a client, co-counsel or retained expert of H&K, you should maintain its contents in confidence in order to preserve the attorney-client or work product privilege that may be available to protect confidentiality.

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Michael.McAdams@hklaw.com
Sent: Thur 10/23/2014 2:09:19 PM
Subject: today

Do you want to do elephant and castle or just have me come to your office. Your call.

Michael J. McAdams | Holland & Knight

President, ABFA

Senior Policy Advisor

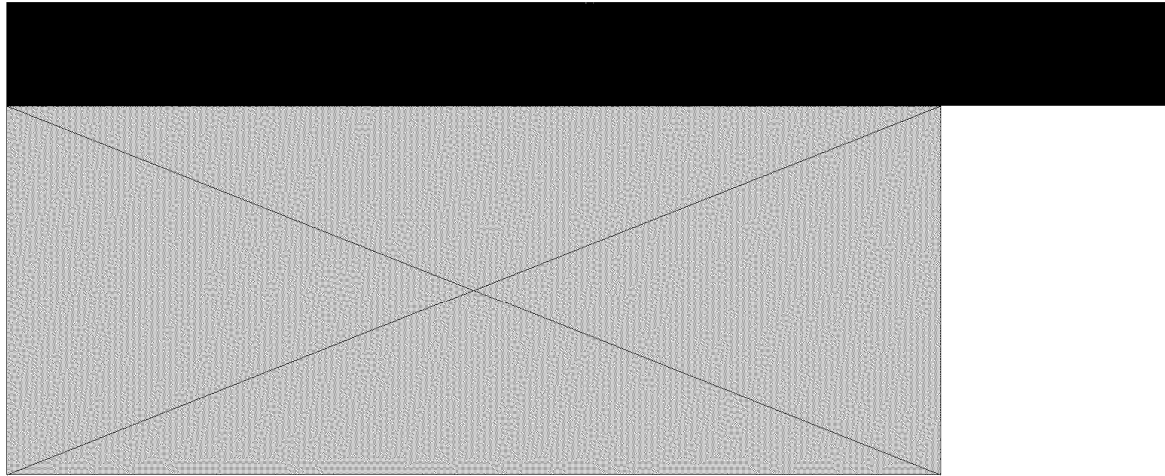
800 17th Street, NW Suite 1100 | Washington DC 20006

Phone 202.469.5140 | Fax 202.955.5564

michael.mcadams@hklaw.com | www.hklaw.com

NOTE: This e-mail is from a law firm, Holland & Knight LLP ("H&K"), and is intended solely for the use of the individual(s) to whom it is addressed. If you believe you received this e-mail in error, please notify the sender immediately, delete the e-mail from your computer and do not copy or disclose it to anyone else. If you are not an existing client of H&K, do not construe anything in this e-mail to make you a client unless it contains a specific statement to that effect and do not disclose anything to H&K in reply that you expect it to hold in confidence. If you properly received this e-mail as a client, co-counsel or retained expert of H&K, you should maintain its contents in confidence in order to preserve the attorney-client or work product privilege that may be available to protect confidentiality.

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: 25x'25
Sent: Fri 10/17/2014 2:06:21 PM
Subject: Weekly REsource for October 17, 2014



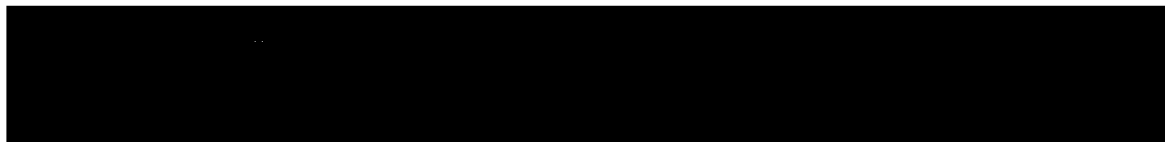
The 25x'25 Weekly REsource is a digest that features items from this week's blog site, the [25x'25 REsource](#), and other sources. The [25x'25 REsource](#) and the 25x'25 Weekly REsource complement the role of 25x'25 as an objective and trusted source of information on agricultural and forestry renewable energy and climate solutions. Also, visit us at our [Facebook page](#) and follow us on [Twitter](#).

Our Featured Blog

News of Note

Headlines of Note

Upcoming Events



Our Featured Blog

Steady the RFS Course. Full Speed Ahead

When it comes to the Renewable Fuel Standard (RFS) and the long awaited, much debated and anticipated 2014 biofuel blending requirements announcement, it's time to steady the course and proceed full steam ahead.

Fresh information on the economic benefits of the RFS, and the national security and

News of Note

economic benefits of home grown energy should be enough to transform the thinking of federal officials and legislators who hold the 2014 announcement captive.

[Read more here...](#)

New Tool Details Economic Benefits of the RFS

The Renewable Fuels Standard (RFS) has generated \$184.5 billion in economic activity across the United States says [Fuels America](#). In addition, more than 852-thousand jobs are supported, while \$46.2 billion in wages and \$14.5 billion in taxes are generated each year.

Renewable fuels now represent nearly 10 percent of America's fuel supply and have helped reduce U.S. dependence on foreign oil to the lowest level in years.

The new tool is an interactive map with data by state and congressional district. The data can be viewed as an economic report or as a table-of direct, supplier and induced economic impact figures, demonstrating that the economic benefits are not limited to agriculture and biofuel production. Some two-thirds of the jobs, about 60 percent of the economic output and 70 percent of the wages are induced, when wages circulate through the economy, or result from suppliers.

Here's a look at the aggregate report for three states, by definition here the renewable fuel sector includes conventional and cellulosic ethanol, biodiesel and advanced biofuels and their suppliers:

- **In Iowa**, the renewable fuel sector generates \$19.3B of total economic output annually, supports 73,371 jobs, generates \$5.0B in wages annually, contributing \$1.1B in Federal taxes and \$640.0M in Iowa taxes each year.
- The renewable fuel sector, generates \$4.0B of total economic output annually, supports 21,015 jobs, generates \$1.2B in wages annually, contributing \$142.8M in Federal taxes and \$139.7M in **New York** taxes each year.
- **In Washington state**, the renewable fuel sector generates \$1.6B of total economic output annually, supports 8,450 jobs, generates \$448.8M in wages annually, contributing \$55.5M in Federal taxes and \$55.7M in state taxes each year.

The new tool is designed to explain the economic benefits of the Renewable Fuel Standard and to garner support for continuing the RFS. The RFS ensures that Americans have choices at the fuel pump and opens the fuel market to new sources.

Headlines of Note
The following are economic, national security and environmental benefits noted by the organization:

News of interest to our 25x'25 Partners and advocates for a clean energy future:

- Lowers gas prices by \$1.09 per gallon and saves the average American household Earth to Cellulosic Ethanol. Glad You are Here, Buddy, What Took So Long?
- Reduces U.S. reliance on foreign oil to the tune of \$44 billion dollars saved last year.
- Supports hundreds of thousands of jobs, including more than 300,000 jobs in 2012.
- Reduces harmful greenhouse gas emissions compared with oil; in the case of "cellulosic" biomass, that difference is as much as 110% lower than oil.

Advanced Ethanol Makers are Giving Big Oil a Run for its Money
Supporting rural farmers, generating \$500 billion increase to communities' farm assets around the country.

<http://www.forbes.com/sites/kensilverstein/2014/10/08/advanced-ethanol-makers-are-trying-to-give-big-oil-a-run-for-its-money/>

The report tells the story of an innovative, advanced renewable fuels and biofuels industry that is producing growing benefits for America's economy. "The data are in: The Renewable Fuel Standard (RFS) is driving billions of dollars of economic activity across America," the report concludes. "This is the result of years of investment by the biofuel sector to bring clean, low carbon renewable fuels to market."

Biofuel Leaders Say EPA has Treated Industry Unfairly

<http://www.startribune.com/business/279946414.html>
Fuels America launched an advertising campaign in major political news outlets to draw attention to the \$1.1 billion that "big oil" has spent to "rig" the political system with lobbyists and campaign cash since 2008.

Fuels America cites information from www.opensecrets.org as the basis of the **Five Reasons Solar Will Power the Future** campaign, and says the oil sector recorded \$93 billion in profits last year.

Fuels America is Good for the Nation by Combining Solar and Protecting America's Renewable Fuel Standard and Promoting the benefits of all types of the world's fuel already growing in America. Fuels America is founded on the core principle: Renewable fuel is good for the U.S. economy, for our nation's energy security and for the environment.

CA: Frazzled by King Fire Smoke, Foresthill Looking at Biomass Energy Plant
<http://www.auburnjournal.com/article/10/03/14/frazzled-king-fire-smoke-foresthill-looking-biomass-energy-plant-feasibility>

Research Models Real-World Data to Model Effect of More Solar on Grid
Ethanol Group Says St. Louis Not Getting a Fair Price on E85
http://www.stltoday.com/business/local/ethanol-group-says-st-louisans-aren-t-getting-fair-price/article_fa37bc4c-4c77-56f5-8ecb-a71a8be13c5b.html

Upcoming Events

As more electricity is generated from renewable sources such as solar and wind, how ~~Fall Middle Grades operations reception with the Green Channel by The South Atlantic Green Communicators and Southeast Green~~ will the capacity be maintained by the South Atlantic Green Communicators and Southeast Green ~~Tue Oct 21 5:30 PM Atlanta GA~~ will the capacity be maintained by the South Atlantic Green Communicators and Southeast Green ~~Researchers at the U.S. Department of Energy's Argonne National Laboratory (ANL) have been studying.~~

Next Wednesday! Celebrate the Second Annual National Bioenergy Day October 22, 2014. Visit the website www.bioenergyday.com to help find an event near you, it's not too late!

Utilities today largely depend on electricity generated from nuclear, coal and gas, generation capacity that gives utilities a very high rate of reliability. Utilities do a ~~great job of load balancing keeping the number of plants in operation needed to meet demand, usually by following the rule to keep a greater amount of capacity~~ great job of load balancing keeping the number of plants in operation needed to meet demand, usually by following the rule to keep a greater amount of capacity ~~601401 Oct 20 at 7:00 am Golden, CO.~~

Federal and California State Agencies announce public meetings on the Draft Desert Renewable ~~However, that is earlier, valid and done because electricity is not easily stored,~~ public meetings on the Draft Desert Renewable ~~and, in the case of renewable generation-most cannot be produced on demand.~~

Energy Trust of Oregon-Advisory Council Meetings will be held in Portland, OR on October 22 and November 21, 2014.

As renewables capture a greater share in a utility portfolio, the utility is faced with an expensive equation, holding more capacity in reserve in order to meet consumer demand. While utilities are experienced in forecasting consumer demand, ~~The North Texas Renewable Energy Group/North Texas Solar Energy Society will meet Nov. 1, 2014 in Carrollton, TX. Presenter Russell Smith, Executive Director of the Texas Renewable Energy Institute. For example, it is difficult to maintain reliability if the wind stops blowing, or there is an extended period of cloud cover at the same time there is a surge in consumer demand.~~

ANL researchers used real-world data from the Arizona Public Service Company, a utility with increasing solar capacity. They looked at three common types of ~~25x25 Sponsors~~ 25x25 Sponsors ~~decisions: decisions made the day ahead, decisions made on an hour-ahead basis, and decisions made during the hour, or real-time balancing; creating~~

STAY CONNECTED



Ardun Botterud, one of the ANL researchers told Physics.org: "Flexibility is a key aspect of integrating renewables into the grid. Traditionally, this flexibility comes from both the supply side-flexible thermal generators, for instance-but the demand side could contribute as well. It's also important for utilities to be able to trade power with each other, especially in times of low demand and very high solar energy generation. This helps smooth out the peaks and valleys of electricity generation and consumption."

In the future, the researchers plan to look at the demand side and consumer flexibility to learn how they could help utilities put more renewable electricity generation into their portfolio. Some of the scenarios they might study include: giving consumers tools to monitor energy use and price, so they could reduce consumption at peak times. Or, what happens when utilities use probability forecasts in order to change the amount of reserves they hold. For example, if there was a low probability of cloudy weather, reserve capacity could be lowered.

Read the full report, issued in late 2013, *Integrating Solar PV in Utility System Operations*, at the ANL website.

Diary Digesters -- Wasted Renewable Energy Opportunity, Multiple Benefits

Just ahead of the U.N. 2014 Climate Summit, the *Los Angeles Times* editorial board wrote that they would like to see the topic of methane, refrigerants and other short-lived climate pollutants addressed. While these pollutants don't remain in the environment as long as carbon, they are more powerful at trapping heat.

"Methane, which is the most abundant and which is emitted from landfills, livestock farms and some oil and gas operations, breaks down after about 50 years, but it is 20 to 30 times more potent at trapping heat. It is believed to be the source of 25% of the Earth's warming," write the editors.

Later the Secretary of the Department of Food and Agriculture and others made

known their opinions that efforts have been made to cut emissions of fluorinated gasses, and included \$12 million in the state budget for cap-and-trade proceeds from dairy digesters, among other efforts.

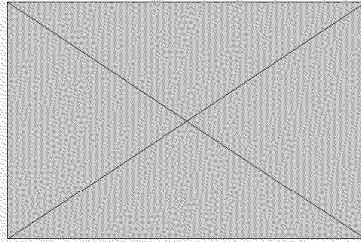
Anaerobic digesters (often called methane digesters) are familiar to those interested in agriculture and renewable energy—simply put—there is seemingly no lack of inputs to fuel digesters. Bringing digesters on-stream can have multiple benefits as a renewable energy source, in helping reduce GHG, and for health, particularly in regions of the world where high-density population, water sources and livestock are often in close proximity. Think China.

Slate's Money Box recently ran an article noting that in America "landfill operators capture the methane release by decomposing trash to generate electricity". A single cow can produce 30 pounds of manure a day, and the author builds on this and other figures to make an important point: America is overlooking a plentiful, renewable resource.

In the United States, manure to methane is a small subset of the larger biogas sector. The August 2014 Biogas Opportunities Roadmap released by the USDA, EPA and Department of Energy says of the 2,000 sites producing biogas in the United States, "only 239 manure-based digesters are in operation," most frequently in high dairy production areas.

The 239 digesters produce enough energy to power about 70,000 homes and reduce methane emissions by the equivalent of two million metric tons of carbon dioxide. While that is impressive enough to merit attention, the Roadmap report estimates that the animal manure produced in the United States each year could support approximately 8,241 digester systems which could produce enough electricity to power nearly 1.1 million homes.

The availability of manure is perhaps best illustrated in this map from the National Renewable Energy Laboratory, showing the density of manure methane emissions. One of the "hot spots" is North Carolina---always one of the top pork production states.



There are opportunities for agriculture to install more anaerobic digesters- digester technology is improving since newer digesters often have the capacity to accept multiple waste streams, for instance, manure, food waste and household waste.

If you thought the magnitude of manure was large, consider the issue of food leftovers in the U.S. waste stream: Nationwide, food leftovers are the single-largest component of the waste stream by weight. Food scraps make up 17 percent (29 million tons/year) of what we send to landfills, or enough to fill the Rose Bowl every three days, reports AGreen Energy.

To conclude this piece on the opportunities for and benefits of dairy digesters, you might like to read some recent press coverage of this renewable energy technology:

- This [city-dweller's account of visiting dairy digesters](#) on the Oregon Coast for a look at how a consumer might view this technology;
- Learn about a [Wisconsin-based health system that entered a \\$14 million biogas farm partnership](#) to move toward energy independence. The plant will collect manure from more than 2,000 cows on three area dairy farms, providing electricity for the health system, selling excess electricity (enough to power about 2,500 homes), and generating by products such as compost, animal bedding, fertilizer and other materials that can be sold for about \$2 million a year.
- Read this piece on [efforts by municipalities to re-purpose food waste](#) into animal feed, as a feedstock for anaerobic digesters, to fuel city busses and more.

ILSR Report Says Walton family Undermining Rooftop Solar

<http://www.ilsr.org/walton-report/>

Local Author with Coalmining Heritage Says Clean Energy Can Come to Southern Illinois

http://thesouthern.com/news/local/local-author-wants-to-bring-clean-energy-to-region/article_49b40a22-8671-5045-b5c9-95451cf14c46.html

Report says Moving Beyond Coal to Renewable Energy will Cut GHG and Boost Georgia's Economy

<https://drive.google.com/file/d/0B1dk6uYv0lc2SVBtd0kyeEdXT28/view?pli=1>

Governor Visits Aspen, Lauds Renewable Energy Facility

<http://www.aspentimes.com/news/13372884-113/energy-aspen-renewable-hickenlooper>

North Carolina's Energy Boom Being Driven by Solar

<http://cleantechnica.com/2014/10/12/north-carolinas-renewable-energy-boom-driven-solar-according-new-report/>

Discovery of a Cellular Snooze Button Advances Cancer and Biofuel Research

<http://msutoday.msu.edu/news/2014/discovery-of-cellular-snooze-button-advances-cancer-and-biofuel-research/>

An Ethanol Surprise in Iowa?

<http://thehill.com/blogs/congress-blog/politics/220594-an-ethanol-surprise-in-iowa>

Climate Change Threatens National Security, Pentagon Says

<http://www.washingtonpost.com/news/checkpoint/wp/2014/10/13/climate-change-threatens-national-security-pentagon-says/>

**Iowa Scientists Publish Climate Change Statement:
Iowa Climate Statement 2014: Impacts on the Health of Iowans**
<http://kimt.com/2014/10/13/iowa-scientists-publish-climate-change-statement/>

EPA Releases New Policy Statement on Climate Change
<http://www.galvanews.com/article/20141011/Blogs/141019883>

Beyond the Corn: the new frontier in ethanol is nonfood biofuel
<http://www.startribune.com/business/278834141.html>

This email was sent to argyropoulos.paul@epa.gov by info@25x25.org | [Update Profile/Email Address](#) | Rapid removal with [SafeUnsubscribe™](#) | [Privacy Policy](#).

25x'25 Alliance | 1430 Front Ave | Lutherville | MD | 21093

To: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Michael.McAdams@hklaw.com
Sent: Thur 10/16/2014 9:01:49 PM
Subject: RE: Invite: Lunch Meeting

That would be great. Put it on my calendar.

Michael J. McAdams | **Holland & Knight**
Senior Policy Advisor
800 17th Street, NW Suite 1100 | Washington DC 20006
Phone 202.469.5140 | Fax 202.955.5564
michael.mcadams@hklaw.com | www.hklaw.com

From: Argyropoulos, Paul [mailto:Argyropoulos.Paul@epa.gov]
Sent: Thursday, October 16, 2014 4:42 PM
To: McAdams, Michael J (WAS - X75140)
Subject: Invite: Lunch Meeting

Hi Mike,

Can you do lunch or a meeting with Ben Hengst and I next Thursday around noon? Would like to chat in advance of your board meeting. Let me know.

Best, Paul

Paul Argyropoulos

Senior Policy Advisor

US EPA

Office of Transportation and Air Quality

Phone: 202-564-1123

Mobile: 202-577-9354

Email: argyropoulos.paul@epa.gov

Web: www.epa.gov

NOTE: This e-mail is from a law firm, Holland & Knight LLP ("H&K"), and is intended solely for the use of the individual(s) to whom it is addressed. If you believe you received this e-mail in error, please notify the sender immediately, delete the e-mail from your computer and do not copy or disclose it to anyone else. If you are not an existing client of H&K, do not construe anything in this e-mail to make you a client unless it contains a specific statement to that effect and do not disclose anything to H&K in reply that you expect it to hold in confidence. If you properly received this e-mail as a client, co-counsel or retained expert of H&K, you should maintain its contents in confidence in order to preserve the attorney-client or work product privilege that may be available to protect confidentiality.

To: Grundler, Christopher[grundler.christopher@epa.gov]
Cc: Argyropoulos, Paul[Argyropoulos.Paul@epa.gov]
From: Michael.McAdams@hklaw.com
Sent: Thur 10/16/2014 3:03:22 PM
Subject: ABFA Board meeting

Chris: Hope this note finds you well. ABFA will be holding its 2014 Fall Board meeting in Washington DC on the 20th of November. We would be honored if you might once again visit with our membership. It has been a year since you and Paul visited with our Executive Committee. With so much going on it is always a highlight for our members to get to hear from you and Paul as to all the various pieces which are under consideration. As always we very much appreciate all the challenges and all that you have on your plate. Thanks for your consideration of our request. All the best,

Michael J. McAdams | Holland & Knight

President, ABFA
Senior Policy Advisor
800 17th Street, NW Suite 1100 | Washington DC 20006
Phone 202.469.5140 | Fax 202.955.5564
michael.mcadams@hklaw.com | www.hklaw.com

NOTE: This e-mail is from a law firm, Holland & Knight LLP ("H&K"), and is intended solely for the use of the individual(s) to whom it is addressed. If you believe you received this e-mail in error, please notify the sender immediately, delete the e-mail from your computer and do not copy or disclose it to anyone else. If you are not an existing client of H&K, do not construe anything in this e-mail to make you a client unless it contains a specific statement to that effect and do not disclose anything to H&K in reply that you expect it to hold in confidence. If you properly received this e-mail as a client, co-counsel or retained expert of H&K, you should maintain its contents in confidence in order to preserve the attorney-client or work product privilege that may be available to protect confidentiality.